| Wor     | k O    | rder | ID  | 567 | 719   |
|---------|--------|------|-----|-----|-------|
| 7 7 0 4 | $\sim$ | IUCI | 11/ |     | , , , |

March 5, 2010 9:59:52 AM

**Required Date:** 17/03/2010



Page 1

Item ID:

D412-742-041

Accept

Setup Start

Stop



**Revision ID:** 

Item Name:

Replacement Float Skidtube

**Start Date:** 

05/03/2010

Start Qty: 1.00

Req'd Qty: 1.00



**Cust Item ID: Customer:** 

Reference:

Approvals:

**Process Plan:** 

QC:

Date:

Date 0-3-5 Tooling: SPC (Y/N):

0.00

0.00

Date:

Date:

Run

Stop

Start

Sequence ID/ Work Center ID

Operation Description

Set Up/ **Run Hours**  Draw Number Draw Rev.

Accept Qty

Reject Reject Number

Insp. Stamp

Draw Nbr

**Revision Nbr** 

D3391

Rev H

100

Document Control

DOCUMENT CONTROL

Memo ·

If D412-742-041 is a W/O on it's own,

Photocopy bluefile and create labels per PPP D412-742-041 CHG004

5,

Plan

Code

Qty

, ,

| W/O:        |                                  |                   | W                    | ORK ORDER CHANG               | GES      |   |              |         |              |              |              |  |          |          |
|-------------|----------------------------------|-------------------|----------------------|-------------------------------|----------|---|--------------|---------|--------------|--------------|--------------|--|----------|----------|
| DATE        | STEP                             | PRO               | CEDURE CHA           | 77 (A. 1974)                  |          | By Date Qty Approval Chief Eng / Prod Mgr |              |         |              |              |              |  |          |          |
|             |                                  |                   |                      |                               |          |   |              |         |              |              |              |  |          |          |
|             |                                  |                   |                      |                               |          |   |              |         |              |              |              |  |          |          |
| <del></del> |                                  |                   |                      |                               |          |   |              |         |              |              |              |  |          |          |
|             |                                  |                   |                      |                               |          |   | !            |         |              |              |              |  |          |          |
|             |                                  |                   |                      |                               |          |   |              |         |              |              |              |  |          |          |
| Part No     |                                  | PAR #:            |                      |                               |          |   |              |         |              |              |              |  |          |          |
|             | Resolution: Disposition: QA: N/C |                   |                      |                               |          |   |              | Date: _ |              |              |              |  |          |          |
| NCR:        |                                  | <b>\</b>          | WORK ORD             | ER NON-CONFORM                | IANCE (N | ICR)                                      | · -          |         |              |              |              |  |          |          |
| DATE        | STEP                             | Description of NC |                      |                               | ction B  |   | Verification |         | Verification |              | Verification |  | Approval | Approvai |
|             | 0.2.                             | Section A         | Initial<br>Chief Eng | Action Description  Chief Eng |          | gn &<br>Date                              | Section C    |         | Chief Eng    | QC Inspector |              |  |          |          |
|             |                                  |                   |                      |                               |          |   |              |         |              | -            |              |  |          |          |
|             |                                  |                   |                      |                               |          |   |              | ,       |              |              |              |  |          |          |
|             |                                  |                   |                      |                               |          |   |              |         |              |              |              |  |          |          |
|             |                                  |                   |                      |                               |          |   |              |         |              |              |              |  |          |          |
|             |                                  |                   |                      |                               |          |   |              |         |              |              |              |  |          |          |
| 1           |                                  |                   |                      |                               |          |   |              |         |              |              |              |  |          |          |
|             |                                  |                   |                      |                               |          | <del></del>                               |              |         |              |              |              |  |          |          |
|             |                                  |                   |                      |                               |          |   |              |         |              |              |              |  |          |          |
|             |                                  |                   |                      |                               |          |   |              |         |              |              |              |  |          |          |
|             |                                  | ,                 |                      |                               | 1        |   |              |         |              | <b>.</b>     |              |  |          |          |

#### 'Work Order ID 56719

March 5, 2010, 9:59:52 AM



Page 2

Item ID:

D412-742-041

Accept



Setup Start

Stop



**Revision ID:** 

Item Name:

Replacement Float Skidtube

Start Date: 05/03/2010 Start Otv: 1.00

**Required Date: 17/03/2010** Rea'd Oty: 1.00



**Cust Item ID:** Customer:

Reference:

| Approvals: |  |
|------------|--|
|            |  |
|            |  |
|            |  |

Process Plan: Date: Tooling:

0.00

Date:

Start Run



OC:

Date:

SPC (Y/N):

Date:

=) H 10/08/18

Stop



Sequence ID/ Work Center ID

110



HandFinish

Hand Finishing

Operation Description

HandFinishing

Set Up/

**Run Hours** 0.00

Draw Number

Draw Plan Rev.

Accept Code Otv

Reject Otv

Reject Insp. Number Stamp

1-Install tubes together and seal them all the way around using Sikaflex

241/291. Ensure tube ends line-up with saddle holes for proper alignment, using

/\_\_7/16" "T" Pins. A/R□□Sikaflex-241/-291□ [M/11 5 1/ 4] Expiry date:

2-Install wearplates as per Dwg D3391. Ensure that plastic washers are against wearplate, then topped with the SS washer. Seal all bolts with sikaflex exept ones with inserts on inside of tube, hand tighten only bolts with no sikaflex. 

Expiry date: \( \begin{aligned} \langle \langl

3-Remove "T" pins once sikaflex is dry.

4-Coat all exposed hardware with LPS Procyon. Remove any excess off with

MEK degreaser.

A/R □ LPS Procyon □ 14 14596

120



QC5- Inspect part completeness to step on W/O

0.00

0.00

M 10 08 18 (1)

Quality Control

Memo

| W/O:                     |      |                   | W          | ORK ORDER CHANG              | ES     |        |                                  |           |              |  |  |  |
|--------------------------|------|-------------------|------------|------------------------------|--------|--------|----------------------------------|-----------|--------------|--|--|--|
| DATE                     | STEP | PRO               | OCEDURE CH | ANGE                         |        | Ву     | ty Approval Chief Eng / Prod Mgr | Annroyal  |              |  |  |  |
|                          |      |                   |            |                              |        |        |                                  |           |              |  |  |  |
|                          |      |                   |            |                              |        |        |                                  |           |              |  |  |  |
| <u> </u>                 |      |                   |            |                              |        |        |                                  |           |              |  |  |  |
|                          |      |                   |            |                              |        |        |                                  |           |              |  |  |  |
|                          |      |                   |            |                              |        |        |                                  |           |              |  |  |  |
| Part No                  |      | PAR #:            |            |                              |        |        |                                  |           |              |  |  |  |
| Resolution: Disposition: |      |                   |            |                              |        |        | Date: _                          |           |              |  |  |  |
| NCR:                     |      |                   | WORK ORD   | ER NON-CONFORM               | ANCE   | (NCR)  | )                                |           |              |  |  |  |
| DATE                     | STEP | Description of NC | Initial    |                              | tion B | Sign & | Verification                     |           | Approval     |  |  |  |
|                          |      | Section A         | Chief Eng  | Action Description Chief Eng |        | Date   | Section C                        | Chief Eng | QC Inspector |  |  |  |
|                          |      |                   |            |                              | ,      |        |                                  |           | -            |  |  |  |
|                          |      |                   |            |                              |        |        |                                  |           |              |  |  |  |
| ı                        |      |                   |            |                              |        |        |                                  |           |              |  |  |  |
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|                          |      |                   |            |                              |        |        |                                  |           |              |  |  |  |
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|                          |      |                   |            |                              | 1      |        |                                  |           | ŀ            |  |  |  |

#### 'Work Order ID 56719

March 5, 2010 9:59:52 AM

**Required Date: 17/03/2010** 



Page 3

Item ID:

D412-742-041

Accept



Setup Start

Stop

Revision ID:

Item Name:

Replacement Float Skidtube

**Start Date:** 

05/03/2010

Start Otv: 1.00

Req'd Oty: 1.00



Cust Item ID: **Customer:** 

Reference:

Approvals:

QC:

Process Plan:

Date:

Tooling:

SPC (Y/N):

Date:

Date:

Run Start

Stop

Sequence ID/ **Work Center ID** 

130

Packaging

Packaging

Operation Description

Packaging

Set Un/ **Run Hours** 

Date:

0.00

Draw Number

Draw Rev.

Plan Accept Oty Code

Reject Qty

Reject Number Stamp

Insp.

Memo

Identify and pack for shipping as per PPP D412-742-041 □ Location: □PPP Rev:

140

OC Quality Control QC21- Final Inspection - Work Order Release

0.00

Memo

0.00

10/08/23 755 MF 10-820

| W/O:    | /0: WORK ORDER CHANGES       |                                |            |                    |         |       |                        |                                     |                          |
|---------|------------------------------|--------------------------------|------------|--------------------|---------|-------|------------------------|-------------------------------------|--------------------------|
| DATE    | STEP                         | PRO                            | OCEDURE CH | ANGE               | Ву      | Da    | ate Qty                | Approval<br>Chief Eng /<br>Prod Mgr | Approval<br>QC Inspector |
|         |                              |                                |            |                    |         |       |                        |                                     |                          |
| ·       |                              |                                |            |                    |         |       |                        |                                     |                          |
|         |                              |                                |            |                    |         |       |                        |                                     |                          |
|         |                              |                                |            |                    |         |       |                        |                                     |                          |
| Part No | :                            | PAR #:                         | Fault Cat  | egory:             | NCR: Ye | es No | DQA:                   | Date: _                             |                          |
| •       | Resolution: Disposition: QA: |                                |            |                    | QA: N/C | Close | d:                     | Date: _                             |                          |
| NCR:    |                              |                                | WORK ORI   | DER NON-CONFORM    | ANCE (N | CR)   |                        |                                     |                          |
| DATE    | STEP                         | Description of NC<br>Section A | Initial    | Action Description |         | n &   | Verification Section C | Approval Chief Eng                  | Approval QC Inspector    |
|         |                              |                                | Chief Eng  | Chief Eng          | Da      | ate   |                        |                                     | _                        |
|         |                              |                                |            |                    |         |       |                        |                                     | ·                        |
|         |                              |                                |            |                    |         |       |                        |                                     | ,                        |
|         |                              |                                |            |                    |         |       |                        |                                     |                          |
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|         |                              |                                |            |                    |         |       |                        |                                     |                          |

March 5, 2010 9:59:49 AM

Work Order ID: 56719

D412-742-041

Parent Item Name:

Replacement Float Skidtube

**Comments:** 

Parent Item:

IPP Rev A□05.10.13□New Issue□

IPP Rev B□06.02.13□ECN 773 dwg @ rev.D

IPP Rev:C 07-05-28 As per Rev F IPP rev D 07.11.01 ecn 1053p

 $KJ/JLM\Box$ 

EC

JLM

EC

Start Date: 05/03/2010

**Required Date:** 17/03/2010

Start Qty: 1.00

Required Qty: 1.00

AN3C4A

Purchased

No

110

Each

1,649.000 24.0000



1 (85) Eli (8)(5) EDU (1) EDU (1) E DIU (1) E DIU (1)

| BOLT |  |
|------|--|

| Warehouse      | Loc Qty | Loc Code |                                       |
|----------------|---------|----------|---------------------------------------|
| Location       |         |          |                                       |
| Main Warehouse |         |          |                                       |
| ST             | 1649    | MILLAHI  | x24 41 10108/13                       |
| 112314         | 13      |          |                                       |
| 112720         | 12      |          |                                       |
| 112724         | 3       |          | <u> </u>                              |
| 112829         | 1       |          | · · · · · · · · · · · · · · · · · · · |
| 112991         | 2       |          |                                       |

AN3C6A

Purchased

No

500 500 110 Each

Loc Qty

64

344

110

100

718.0000 12.0000

Loc Code



**BOLT** 

| <b>Location</b> |  |
|-----------------|--|
| Main Warehouse  |  |
| ST              |  |

Warehouse

111982

113121

113226

113644

113749

114103

114108

718 718

X12 4/10 68/17

|           | · · · |                              |                      |                              |        | <del></del>    | ····         |        |                               |                          |
|-----------|-------|------------------------------|----------------------|------------------------------|--------|----------------|--------------|--------|-------------------------------|--------------------------|
| W/O:      |       |                              | WC                   | ORK ORDER CHANG              | SES    |                |              |        |                               |                          |
| DATE      | STEP  | PRO                          | OCEDURE CHA          | NGE                          |        | Ву             | Date         | Qty    | Approval Chief Eng / Prod Mgr | Approval<br>QC Inspector |
|           |       |                              |                      |                              |        |                |              |        |                               | ,                        |
|           |       |                              |                      |                              |        |                |              |        |                               |                          |
|           |       |                              |                      |                              | :      |                |              |        |                               |                          |
|           |       |                              |                      |                              |        |                |              |        |                               |                          |
| Part No   | :     | PAR #:                       | Fault Cate           | gory:                        | _ NCI  | R: Yes         | No <b>DQ</b> | A:     | Date:                         |                          |
|           | Re    | Resolution: Disposition: QA: |                      |                              |        |                | sed:         |        | Date:                         |                          |
| NCR:      |       |                              | WORK ORDI            | ER NON-CONFORM               | ANCE   | (NCR           | )            |        |                               |                          |
| DATE STEP |       | Description of NC            |                      |                              | tion B | 0: 0           | Verific      | cation | Approval                      | Approval                 |
|           | 0.2.  | Section A                    | Initial<br>Chief Eng | Action Description Chief Eng |        | Sign &<br>Date |              |        | Chief Eng                     | QC Inspector             |
|           |       |                              |                      |                              |        |                |              | ;      |                               |                          |
|           |       |                              |                      |                              |        |                |              |        |                               |                          |
|           |       |                              |                      |                              |        |                |              |        |                               |                          |
|           |       |                              |                      |                              |        |                |              |        |                               |                          |
|           |       |                              |                      |                              |        |                |              |        |                               |                          |
|           |       |                              |                      |                              |        |                |              |        |                               |                          |
|           |       |                              |                      |                              |        |                |              |        |                               |                          |
|           |       |                              |                      |                              |        |                |              |        |                               |                          |
| •         |       |                              | ·                    |                              |        |                |              |        |                               |                          |

\*March 5, 2010 9:59:49 AM Work Order ID: 56719 Parent Item: D412-742-041 Parent Item Name: Replacement Float Skidtube Start Date: 05/03/2010 **Required Date: 17/03/2010** Comments: IPP Rev A□05.10.13□New Issue□ KJ/JLM□ Start Qty: 1.00 Required Qty: 1.00 IPP Rev B□06.02.13□ECN 773 dwg @ rev.D EC IPP Rev:C 07-05-28 As per Rev F JLM IPP rev D 07.11.01 ecn 1053p EC AN3C7A Purchased No 110 Each 485.0000 8.0000 **BOLT** Warehouse Loc Qty Loc Code Location Main Warehouse ST 485 105906 21 107376 252 V8 94 10108/17 (113149° 212 AN960C10L Purchased No 110 Each 388.0000 44.0000

4 NAS 1149 CO 332 R

| Warehouse       | Loc Qty | Loc Code |                 |
|-----------------|---------|----------|-----------------|
| <b>Location</b> |         |          |                 |
| OFFSHORE        |         |          | •               |
| FG              | 100     | M 115000 | 1180 101 DE 444 |
| 103585          | 100     | ,        |                 |
| Main Warehouse  |         |          |                 |
| ST              | 288     |          |                 |
| 112116          | 128     |          |                 |
| 112612          | 160     |          |                 |

| Jopass L                 |  |              |  |   |   |   |   |                                   |  |  |  |  |  |  |
|--------------------------|--|--------------|--|---|---|---|---|-----------------------------------|--|--|--|--|--|--|
|                          | The second secon | WO           | RK ORDER CHAN  | GES   |   |   |   |                                   |  |  |  |  |  |  |
| STEP                     | PRO  | OCEDURE CHAI | NGE  |   | Ву  | Date  | Approval Chief Eng / Prod Mgr  Approva QC Inspecto  |                                   |  |  |  |  |  |  |
|                          |  |              |  |   |   |   |   |                                   |  |  |  |  |  |  |
|                          |  |              |  |   |   |   |   |                                   |  |  |  |  |  |  |
|                          |  |              |  |   |   |   |   |                                   | * * * * * * * * * * * * * * * * * * *  |  |  |  |  |  |
|                          | PAR #:   | Fault Cate   | jory:  | NCF   | R: Yes  | No <b>DQ</b>  | A:  | Date:                             |  |  |  |  |  |  |
| Resolution: Disposition: |  |              |  | QA:   | N/C CIG   | sed:  |   | Date: _                           |  |  |  |  |  |  |
|                          | ,  | WORK ORDE    | R NON-CONFORM  | MANCE   | (NCR  | )   |   |                                   |  |  |  |  |  |  |
| STEP                     | Description of NC  |              |  |   | Cian &  |   |   |                                   | Approval   |  |  |  |  |  |
|                          | Section A  | Chief Eng    | Chief Eng  |   | Date  | Sect  | ion C   | Chief Eng                         | QC Inspector   |  |  |  |  |  |
|                          |  |              |  |   |   |   |   | , -                               |  |  |  |  |  |  |
|                          |  |              |  |   |   |   |   |                                   |  |  |  |  |  |  |
|                          | ,  |              |  |   |   |   |   |                                   |  |  |  |  |  |  |
|                          |  |              |  |   | -   |   |   |                                   |  |  |  |  |  |  |
|                          |  |              |  |   |   |   |   |                                   |  |  |  |  |  |  |
|                          |  |              |  |   |   |   | e,  |                                   |  |  |  |  |  |  |
|                          |  | :PAR #:      | STEP PROCEDURE CHAN  PAR #: Fault Category  Resolution: Disposition  WORK ORDE  STEP Description of NC Section A Initial | STEP PROCEDURE CHANGE  PAR #: Fault Category:  Resolution: Disposition:  WORK ORDER NON-CONFORM  STEP Description of NC Section A Secti | PAR #: Pault Category: NCF  Resolution: Disposition: QA:  WORK ORDER NON-CONFORMANCE  STEP Description of NC Section A Corrective Action Section B Initial Action Description | STEP PROCEDURE CHANGE By  PAR #: Fault Category: NCR: Yes    Resolution: Disposition: QA: N/C Clo  WORK ORDER NON-CONFORMANCE (NCR  STEP Description of NC Section A Section B  Initial Action Description Sign & | STEP PROCEDURE CHANGE By Date  PAR #: Fault Category: NCR: Yes No DQ.  Resolution: Disposition: QA: N/C Closed:  WORK ORDER NON-CONFORMANCE (NCR)  STEP Description of NC Section A | STEP PROCEDURE CHANGE By Date Qty | STEP PROCEDURE CHANGE By Date Qty Chief Eng / Prod Mgr    PAR #: Fault Category: NCR: Yes No DQA: Date:   Resolution: Disposition: QA: N/C Closed: Date: |  |  |  |  |  |

'March 5, 2010 9:59:49 AM

**Required Date: 17/03/2010** 

Required Qty: 1.00

Work Order ID: 56719

Parent Item:

**Comments:** 

D412-742-041

Replacement Float Skidtube

Parent Item Name:

IPP Rev A□05.10.13□New Issue□

IPP Rev B□06.02.13□ECN 773 dwg @ rev.D IPP Rev:C 07-05-28 As per Rev F

IPP rev D 07.11.01 ecn 1053p

KJ/JLM□

EC JLM EC

AN960C416L

Purchased

No

110

Each

1,314.000 4.0000

**Start Date:** 05/03/2010

Start Qty: 1.00

| WASHER            |                 |                 |     |             |          |        | · · · · · · · · · · · · · · · · · · ·   |
|-------------------|-----------------|-----------------|-----|-------------|----------|--------|---|
|                   |                 | Warehouse       | Lo  | c Oty       | Loc Code |        |   |
|                   |                 | <b>Location</b> |     |             |          |        |   |
|                   |                 | OFFSHORE        |     |             |          |        |   |
|                   |                 | FG              |     | 44          |          |        |   |
|                   |                 | 104925          |     | 44          |          |        |   |
|                   |                 | Main Warehouse  |     |             |          |        |   |
|                   |                 | ST              |     | 1270        |          |        |   |
|                   |                 | 111916          |     | 2           |          |        |   |
| ,                 |                 | 112612          |     | 368         |          |        |   |
| $N \nearrow$      |                 | 112794          |     | 500         |          |        | VJ 41 10108118                          |
| D3391-011         | Manufactured No | 112828          | 110 | 400<br>Each | 0.0000   | 1.0000 | <u> </u>                                |
|                   | on d            | 41.013          | *** | Lacii       | 0.0000   |        | 10-1                                    |
| Fwd Tube Assembly | useq 03         | 3/1/108         |     |             |          |        | x 1 B 56 725 H 10/08/17                 |
| D3391-013         | Manufactured No | 391-013         | 110 | Each        | 0.0000   | 1.0000 |   |
|                   | Translation of  |                 | 110 | Euch        | 0.0000   |        | 10=(=================================== |
| Mid Tube Assembly |                 |                 |     |             |          |        | X1 B56728 Al 10/08/107                  |
| D3391-015         | Manufactured No |                 | 110 | Each        | 0.0000   | 1.0000 | ,                                       |
|                   | Translatured    |                 | 110 | Buon        | 0.0000   |        | V1771-77 101 (1                         |
| Aft Tube Assembly |                 |                 |     |             |          |        | X1356733 M 10/08/17                     |
| •                 |                 |                 |     |             |          |        |   |

|         | •    |                   |                             |                              |             |                  |       |                               |                          |
|---------|------|-------------------|-----------------------------|------------------------------|-------------|------------------|-------|-------------------------------|--------------------------|
| W/O:    |      |                   | WC                          | ORK ORDER CHANG              | ES          |                  |       |                               |                          |
| DATE    | STEP | PROCEDURE CHANGE  |                             |                              | Ву          | Date             | Qty   | Approval Chief Eng / Prod Mgr | Approval<br>QC Inspector |
|         |      |                   |                             |                              |             |                  |       |                               |                          |
|         |      |                   |                             |                              |             |                  |       |                               |                          |
|         |      |                   |                             |                              |             |                  | 1     | · .                           |                          |
|         |      |                   |                             |                              |             |                  |       |                               |                          |
|         |      |                   |                             |                              |             |                  |       |                               |                          |
| Part No | •    | PAR #:            | Fault Cate                  | gory:                        | NCR: Yes    | No <b>DQ</b>     | A:    | _ Date: _                     |                          |
|         |      |                   | Disposition: QA: N/C C      |                              |             | losed: Date:     |       |                               |                          |
| NCR:    |      | ,                 | WORK ORD                    | ER NON-CONFORMA              | NCE (NC     | R)               |       |                               |                          |
| DATE    | STEP | Description of NC | Corrective Action Section B |                              |             | Sign & Verificat |       | Approval                      | Approval                 |
|         | O.L. | Section A         | Initial<br>Chief Eng        | Action Description Chief Eng | Sign<br>Dat |                  | ion C | Chief Eng                     | QC Inspector             |
|         |      |                   |                             |                              |             |                  |       |                               |                          |
|         |      |                   |                             |                              |             |                  |       |                               |                          |
| -       |      |                   |                             |                              |             |                  |       |                               |                          |
|         |      |                   |                             |                              |             |                  |       |                               |                          |
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|         |      |                   |                             |                              |             |                  |       |                               |                          |

'March 5, 2010 9:59:49 AM

Page

Required Date: 17/03/2010

Required Qty: 1.00

Work Order ID: 56719

Parent Item Name:

D412-742-041

**Comments:** 

Parent Item:

IPP Rev A□05.10.13□New Issue□

IPP Rev B□06.02.13□ECN 773 dwg @ rev.D IPP Rev:C 07-05-28 As per Rev F

IPP rev D 07.11.01 ecn 1053p

Replacement Float Skidtube

KJ/JLM□

EC JLM EC

D3564-1

Manufactured

No

110

Each

18.0000 1.0000

Start Date: 05/03/2010

Start Qty: 1.00

| W | earshoe |
|---|---------|
|   |         |

| Warehouse<br>Location | Loc Qty | Loc Code |                |
|-----------------------|---------|----------|----------------|
| OFFSHORE              |         |          |                |
| FG                    | 2       |          |                |
| 33798                 | 2       |          |                |
| Main Warehouse        |         |          | <del></del>    |
| ST                    | 16      |          |                |
| 47531                 | 1       |          | <del></del>    |
| 50 <u>27</u> 0        | 1       |          | 1              |
| 51676                 | 14      |          | VI 71 10/08/17 |

|             | •    |                   |                           |                              |                      |              |            |  |                          |
|-------------|------|-------------------|---------------------------|------------------------------|----------------------|--------------|------------|--|--------------------------|
| W/O:        |      |                   | WC                        | RK ORDER CHANG               | ES                   | ·            |            |  |                          |
| DATE        | STEP | PROCEDURE CHANGE  |                           |                              | Ву                   | Date         | Qty        | Approval<br>Chief Eng /<br>Prod Mgr  | Approval<br>QC Inspector |
|             |      |                   |                           |                              |                      |              |            |  |                          |
|             |      |                   |                           |                              |                      |              |            |  |                          |
|             |      |                   |                           |                              |                      |              |            |  |                          |
|             |      |                   |                           |                              |                      |              |            |  |                          |
| ·           |      |                   |                           |                              |                      |              |            |  |                          |
| Part No     |      | PAR #:            | Fault Cate                | Jory:                        | NCR: Yes             | No <b>DQ</b> | <b>A</b> : | Date: _  |                          |
| Resolution: |      |                   | Disposition               | 1:                           | QA: N/C Closed: Date |              |            |  |                          |
| NCR:        |      | ,                 | WORK ORD                  | ER NON-CONFORMA              | NCE (NC              | R)           |            |  |                          |
| DATE        | STEP | Description of NC | Corrective Action Section |                              |                      | Verifi       | cation     | Approval   | Approval                 |
|             | OIL! | Section A         | Initial<br>Chief Eng      | Action Description Chief Eng | Sign<br>Dat          |              | ion C      | Chief Eng  | QC Inspector             |
|             |      |                   |                           |                              |                      |              |            |  |                          |
|             |      |                   |                           |                              |                      |              |            |  |                          |
|             |      |                   |                           |                              |                      |              |            |  |                          |
| 1           |      |                   |                           |                              |                      |              |            |  |                          |
|             |      |                   |                           |                              |                      |              |            |  |                          |
|             |      |                   |                           |                              |                      |              |            |  |                          |
|             |      |                   |                           |                              |                      |              |            |  |                          |
|             |      |                   |                           |                              |                      |              |            | and the purpose of th |                          |
|             |      |                   |                           |                              |                      |              |            |  |                          |

\*March 5, 2010 9:59:49 AM

Work Order ID: 56719

Parent Item:

D412-742-041

Parent Item Name:

Replacement Float Skidtube

Comments:

IPP Rev A□05.10.13□New Issue□

IPP Rev B□06.02.13□ECN 773 dwg @ rev.D

IPP Rev:C 07-05-28 As per Rev F

IPP rev D 07.11.01 ecn 1053p

KJ/JLM□

EC JLM

EC

Start Date: 05/03/2010

**Required Date: 17/03/2010** 

Start Qty: 1.00

Required Qty: 1.00

D3564-3

Manufactured

No

110

Each

19.0000 1.0000

| Wearshoe |
|----------|
|----------|

| Warehouse       | Loc Qty | Loc Code |                |
|-----------------|---------|----------|----------------|
| <b>Location</b> |         |          |                |
| OFFSHORE        |         |          |                |
| FG              | 2       |          |                |
| 33764           | 2       |          |                |
| Main Warehouse  |         |          |                |
| FP              | 5       |          |                |
| 50113           | 5       |          |                |
| Main Warehouse  |         |          |                |
| FP19            | 11      |          | <del></del>    |
| (55489)         | 11      |          | VI 10 10 10 12 |
| Main Warehouse  |         |          |                |
| ST              | 1       |          |                |
| 46445           | 1       |          |                |

| W/O:         |      |                   | WC                          | ORK ORDER CHANG              | GES  |                      |              |        |                                     |                          |
|--------------|------|-------------------|-----------------------------|------------------------------|------|----------------------|--------------|--------|-------------------------------------|--------------------------|
| DATE         | STEP | PROCEDURE CHANGE  |                             |                              |      | Ву                   | Date         | Qty    | Approval<br>Chief Eng /<br>Prod Mgr | Approval<br>QC Inspector |
|              |      |                   |                             |                              |      |                      |              |        |                                     |                          |
| <del>-</del> |      |                   |                             |                              |      |                      |              |        |                                     |                          |
|              |      |                   |                             |                              |      |                      |              |        |                                     |                          |
| Part No      | •    | PAR #:            | Fault Cate                  | gory:                        | NCI  | R: Yes               | No <b>DQ</b> | A:     | Date:                               |                          |
| Resolution:  |      |                   | Disposition: QA: N          |                              |      | A: N/C Closed: Date: |              |        |                                     |                          |
| NCR:         |      |                   | WORK ORD                    | ER NON-CONFORM               | ANCE | (NCR                 | )            |        |                                     |                          |
| DATE         | STEP | Description of NC | Corrective Action Section B |                              |      |                      | Verific      | cation | Approval                            | Approval                 |
|              | 0.2. | Section A         | Initial<br>Chief Eng        | Action Description Chief Eng |      | Sign &<br>Date       | Secti        | on C   | Chief Eng                           | QC Inspector             |
|              |      |                   |                             |                              |      |                      |              |        |                                     |                          |
|              |      |                   |                             |                              | •    |                      |              |        |                                     |                          |
| <u> </u>     |      |                   |                             |                              |      |                      |              |        |                                     |                          |
|              |      |                   |                             |                              |      | -                    |              |        |                                     |                          |
|              |      |                   |                             |                              |      |                      |              |        |                                     |                          |
|              |      |                   |                             |                              |      |                      |              |        |                                     |                          |
|              |      |                   |                             |                              |      |                      |              |        |                                     |                          |
|              |      |                   |                             |                              |      |                      |              |        |                                     |                          |
|              |      |                   | ,                           |                              |      |                      |              |        |                                     |                          |
|              | 1    |                   |                             |                              |      |                      | 1            |        |                                     | <b>]</b> .               |

\*March 5, 2010 9:59:49 AM

Required Date: 17/03/2010

Required Oty: 1.00

Work Order ID: 56719

D412-742-041

T NEDIKA BINIA BINIA KELEN MENANGAN DARIK BERATAN DARIK BINIA MENANGAN BINIA BINIA BINIA BINIA MENANGAN PERAN Harian binia binia binia menangan binia menangan binia binia binia menangan binia binia binia binia binia bini

Parent Item Name:

Replacement Float Skidtube

Comments:

Parent Item:

IPP Rev A□05.10.13□New Issue□

IPP Rev B□06.02.13□ECN 773 dwg @ rev.D IPP Rev:C 07-05-28 As per Rev F

IPP rev D 07.11.01 ecn 1053p

KJ/JLM□

EC

JLM EC

D3564-5

Manufactured

No

110

Each

36.0000 1.0000

Start Date: 05/03/2010

Start Oty: 1.00

Wearshoe

| <u>Warehouse</u> . <u>Location</u> | Loc Qty | Loc Code |              |
|------------------------------------|---------|----------|--------------|
| OFFSHORE                           |         |          |              |
| FG                                 | 2       |          |              |
| . 34806                            | 2       | _        | x M 10108/17 |
| Main Warehouse                     |         | B59157   |              |
| FP19                               | 32      | -        |              |
| 51925                              | 1       |          |              |
| 54772                              | 6       |          |              |
| 55024                              | 12      |          |              |
| 55333                              | 13      |          |              |
| Main Warehouse                     |         |          |              |
| ST                                 | 2       |          |              |

45824 47433

| Duit Ac     | ospace | Liu               |                           |                              |                |              |           |                               |                          |
|-------------|--------|-------------------|---------------------------|------------------------------|----------------|--------------|-----------|-------------------------------|--------------------------|
| W/O:        |        |                   | W                         | ORK ORDER CHANG              | ES             |              |           |                               |                          |
| DATE        | STEP   | PROCEDURE CHANGE  |                           |                              | Ву             | Date         | Qty       | Approval Chief Eng / Prod Mgr | Approval<br>QC Inspector |
|             |        |                   |                           |                              |                |              |           |                               |                          |
|             |        |                   |                           |                              |                |              | 4         |                               |                          |
|             |        | :                 |                           |                              |                |              |           |                               |                          |
|             |        |                   |                           |                              |                | <del></del>  |           |                               |                          |
| Part No     | :      | PAR #:            | Fault Cate                | gory:                        | _ NCR: Yes     | No <b>DQ</b> | QA: Date: |                               |                          |
| Resolution: |        |                   | Disposition: QA           |                              |                |              |           |                               |                          |
| NCR:        |        |                   | WORK ORD                  | ER NON-CONFORMA              | NCE (NCF       | ₹)           |           |                               |                          |
| DATE        | STEP   | Description of NC | Corrective Action Section |                              |                | Verifica     |           | Approval                      | Approvai                 |
|             | JILI   | Section A         | Initial<br>Chief Eng      | Action Description Chief Eng | Sign &<br>Date |              | on C      | Chief Eng                     | QC Inspector             |
|             |        |                   |                           |                              |                |              |           |                               |                          |
|             |        |                   |                           |                              |                |              |           |                               |                          |
|             |        |                   |                           |                              |                |              |           |                               |                          |
|             |        |                   |                           |                              |                |              |           |                               |                          |
|             |        |                   |                           |                              |                |              |           |                               |                          |
| - 40        |        |                   |                           |                              |                |              |           |                               |                          |
|             |        |                   |                           |                              |                |              |           |                               |                          |
|             |        |                   |                           |                              |                | :            |           |                               |                          |
| ' .<br>     |        |                   |                           |                              |                |              |           |                               |                          |

'March 5, 2010 9:59:49 AM

Work Order ID: 56719

D412-742-041

Replacement Float Skidtube Parent Item Name:

Comments:

Parent Item:

IPP Rev A□05.10.13□New Issue□

IPP Rev B□06.02.13□ECN 773 dwg @ rev.D

IPP Rev:C 07-05-28 As per Rev F

IPP rev D 07.11.01 ecn 1053p

KJ/JLM□

EC

JLM EC

Start Date: 05/03/2010

Required Date: 17/03/2010

Start Otv: 1.00

Required Qty: 1.00

D3566-1

Manufactured

No

110

Each

23.0000 2.0000



1 (02/10) 1000 1021 0000 0010 0011 10000 001

| Gasket |  |  |
|--------|--|--|

| Warehouse Location                                 | Loc Qty           | Loc Code |               |
|--|-------------------|----------|---------------|
| Main Warehouse                                     |                   |          |               |
| FP   | 18                |          |               |
| 52512<br>54480<br>55011<br>55320<br>Main Warehouse | 3<br>1<br>1<br>13 | 1360857  | XZ H 10108117 |
| ST   | 5                 |          |               |
| 46349  | 1                 |          |               |
| 51218  | 1                 |          |               |
| 51259  | 3                 |          | · ·           |

| W/O:        | Ì    |                   | WO  | RK ORDER CHANG               | ES             |              |        |                                     |                          |
|-------------|------|-------------------|---|------------------------------|----------------|--------------|--------|-------------------------------------|--------------------------|
| DATE        | STEP | PROCEDURE CHANGE  |   |                              | Ву             | Date         | Qty    | Approval<br>Chief Eng /<br>Prod Mgr | Approval<br>QC Inspector |
|             |      |                   |   |                              |                |              |        |                                     |                          |
|             |      |                   | Methodo o construction of the construction of |                              |                | <u></u>      |        |                                     |                          |
|             |      |                   |   |                              |                |              |        |                                     |                          |
| Part No     | :    | PAR #:            | Fault Cate  | Jory:                        | NCR: Yes       | No <b>DQ</b> | A:     | Date: _                             | ·                        |
| Resolution: |      |                   | Disposition: QA: N/C Closed: Date:  |                              |                |              |        |                                     |                          |
| NCR:        |      |                   | WORK ORDE   | ER NON-CONFORMA              | NCE (NCF       | R)           |        | 11.                                 |                          |
| DATE        | STEP | Description of NC |   | Corrective Action Section    |                | Verific      | cation | Approval                            | Approval                 |
|             |      | Section A         | Initial<br>Chief Eng  | Action Description Chief Eng | Sign 8<br>Date | Sect         | ion C  | Chief Eng                           | QC Inspector             |
|             |      |                   |   |                              |                |              |        |                                     | ٠                        |
|             |      |                   |   |                              |                |              |        |                                     |                          |
|             |      |                   |   |                              |                |              |        |                                     |                          |
|             |      |                   |   |                              |                |              |        |                                     |                          |
|             |      |                   |   |                              |                |              |        |                                     |                          |
|             |      |                   |   |                              |                |              |        |                                     |                          |
|             |      |                   |   |                              |                |              |        |                                     |                          |
|             |      |                   |   |                              |                |              |        |                                     |                          |
|             |      |                   |   |                              |                |              |        |                                     |                          |

\* March 5, 2010 9:59:49 AM

Work Order ID: 56719

D412-742-041

Parent Item Name:

Replacement Float Skidtube

Comments:

Parent Item:

IPP Rev A□05.10.13□New Issue□

IPP Rev B□06.02.13□ECN 773 dwg @ rev.D IPP Rev:C 07-05-28 As per Rev F

IPP rev D 07.11.01 ecn 1053p

KJ/JLM□

EC JLM EC

Start Date: 05/03/2010

**Required Date: 17/03/2010** 

Start Otv: 1.00

Required Oty: 1.00

D3566-5

Manufactured

No

110

Each

26.0000 1.0000

| <u>Warehouse</u> | Loc | <b>Qty</b> | Loc Code |        |                    |
|------------------|-----|------------|----------|--------|--------------------|
| Location         |     |            |          |        |                    |
| Main Warehouse   |     |            |          |        |                    |
| FP19             |     | 22         |          |        |                    |
| 55026            |     | 10         | 359158   |        |                    |
| 55335            |     | 12         | 22 1196  | •      | XI 90 10 10 10 117 |
| Main Warehouse   |     |            |          |        |                    |
| ST               |     | 4          |          |        |                    |
| 36113            |     | 1          |          |        |                    |
| 46186            |     | 1          |          |        |                    |
| 47318            |     | 1          |          |        |                    |
| 51260            |     | 1          |          |        |                    |
|                  | 110 | Each       | 37.0000  | 2.0000 |                    |

D3591-1

Bushing

Manufactured No

Warehouse

Loc Otv

Loc Code

Location

Main Warehouse

ST

46105 47121

37 B 57 350

x2 M 10/08/17

| <b>-</b> u  | . oopaoo   |                   |                      |                              |          |                        |              |     |                               |                          |
|-------------|------------|-------------------|----------------------|------------------------------|----------|------------------------|--------------|-----|-------------------------------|--------------------------|
| W/O:        |            |                   | WC                   | RK ORDER CHAN                | GES      |                        |              | •   | ,                             |                          |
| DATE        | STEP       | PRO               | OCEDURE CHAI         | NGE                          |          | Ву                     | Date         | Qty | Approval Chief Eng / Prod Mgr | Approval<br>QC Inspector |
|             |            |                   |                      |                              | į        |                        |              |     |                               |                          |
|             |            |                   |                      |                              |          |                        |              |     |                               |                          |
|             |            |                   |                      |                              |          |                        |              |     |                               |                          |
| Part No     | ) <b>:</b> | PAR #:            | Fault Cate           | gory:                        | NCR      | l: Yes I               | No <b>DQ</b> | A:  | Date:                         | 1                        |
| Resolution: |            |                   | Disposition: QA:     |                              |          | A: N/C Closed: Date: _ |              |     |                               |                          |
| NCR:        |            |                   | WORK ORDI            | R NON-CONFORM                | IANCE    | (NCR)                  |              |     |                               |                          |
| DATE        | STEP       | Description of NC |                      |                              | ection B |                        | Verification |     | Approval                      | Approval                 |
|             | SIEP       | Section A         | Initial<br>Chief Eng | Action Description Chief Eng | 1        | Sign &<br>Date         | Secti        |     | Chief Eng                     | QC Inspector             |
|             |            |                   |                      |                              |          |                        |              |     |                               |                          |
|             |            |                   |                      |                              |          |                        |              |     |                               |                          |
|             |            |                   |                      |                              |          |                        |              |     |                               |                          |
|             |            |                   |                      |                              |          |                        |              |     |                               |                          |
|             |            |                   |                      |                              |          |                        |              |     |                               |                          |
|             |            |                   |                      |                              | •        |                        |              |     |                               |                          |
|             |            |                   |                      |                              |          |                        |              |     |                               |                          |
|             |            |                   |                      |                              |          |                        |              |     |                               |                          |
|             |            |                   | 1                    |                              |          |                        |              |     |                               |                          |

March 5, 2010 9:59:49 AM

Work Order ID: 56719

Parent Item:

D412-742-041

Parent Item Name:

Replacement Float Skidtube

Comments:

IPP Rev A□05.10.13□New Issue□

IPP Rev B□06.02.13□ECN 773 dwg @ rev.D IPP Rev:C 07-05-28 As per Rev F

IPP rev D 07.11.01 ecn 1053p

KJ/JLM□

EC JLM

EC

Start Date: 05/03/2010

Start Qty: 1.00

**Required Date:** 17/03/2010

Required Qty: 1.00

D3672-3

Manufactured

110

Each

524.0000 4.0000

Phenolic Washer

| Warehouse       | Loc Oty | Loc Code |       |           |
|-----------------|---------|----------|-------|-----------|
| <b>Location</b> |         |          |       |           |
| Main Warehouse  |         |          |       |           |
| ST117           | 24      | 257728   |       |           |
| 51596           | 24      | B57704   | LX FX | 10 (08/17 |
| Main Warehouse  |         |          |       | V         |
| ST77            | 500     |          |       |           |
| 55560           | 500     |          |       |           |

MS27039C4-12

Purchased

No

110

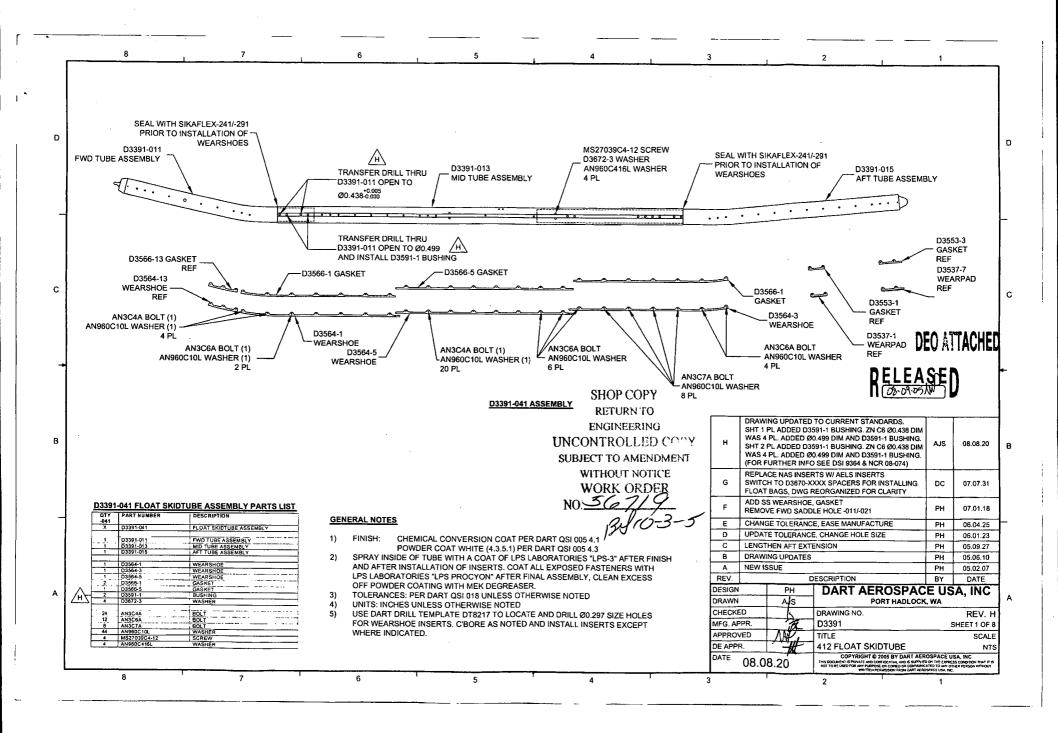
Each

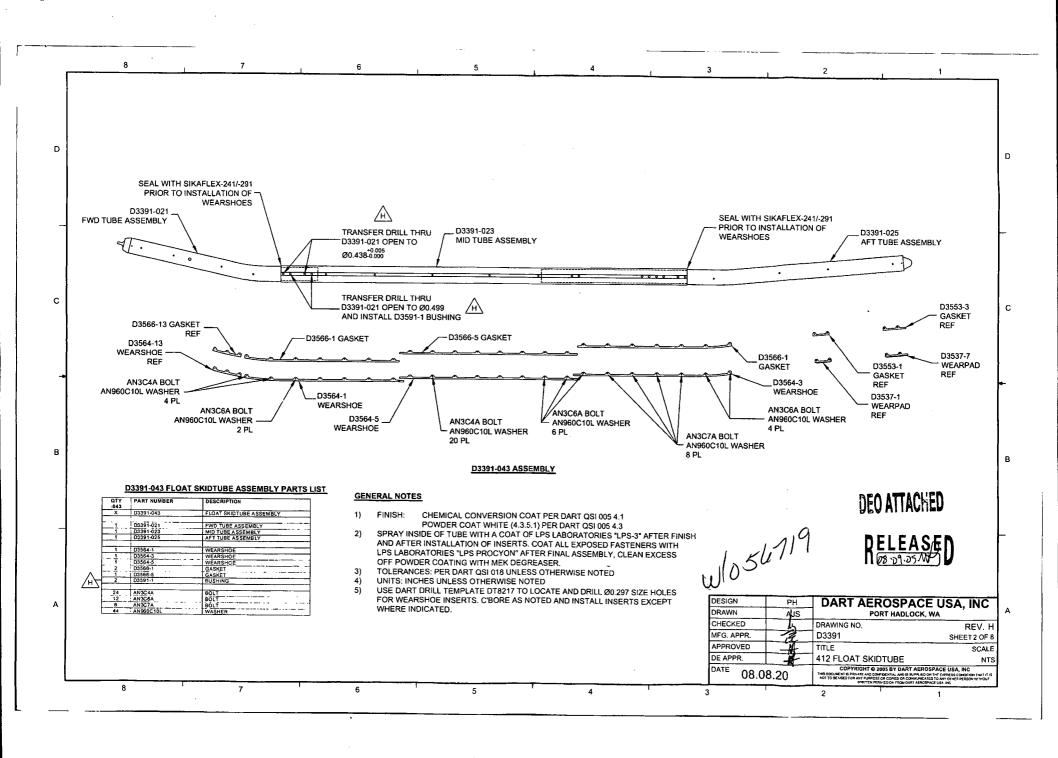
22.0000 4.0000

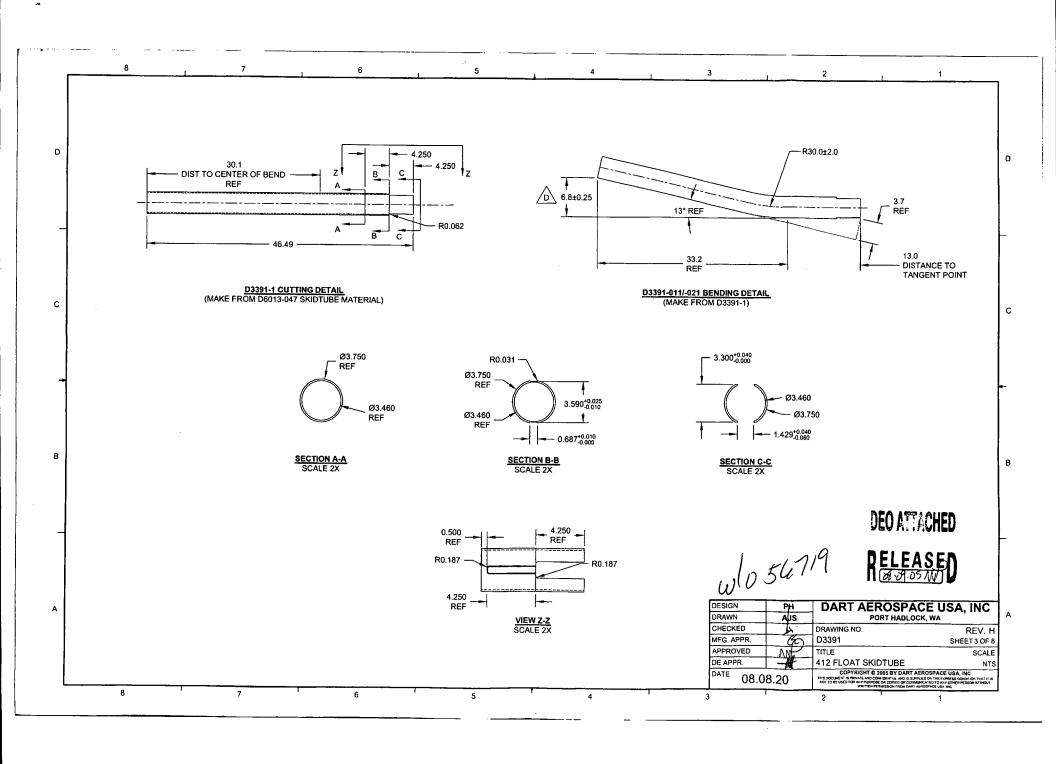
SCREW

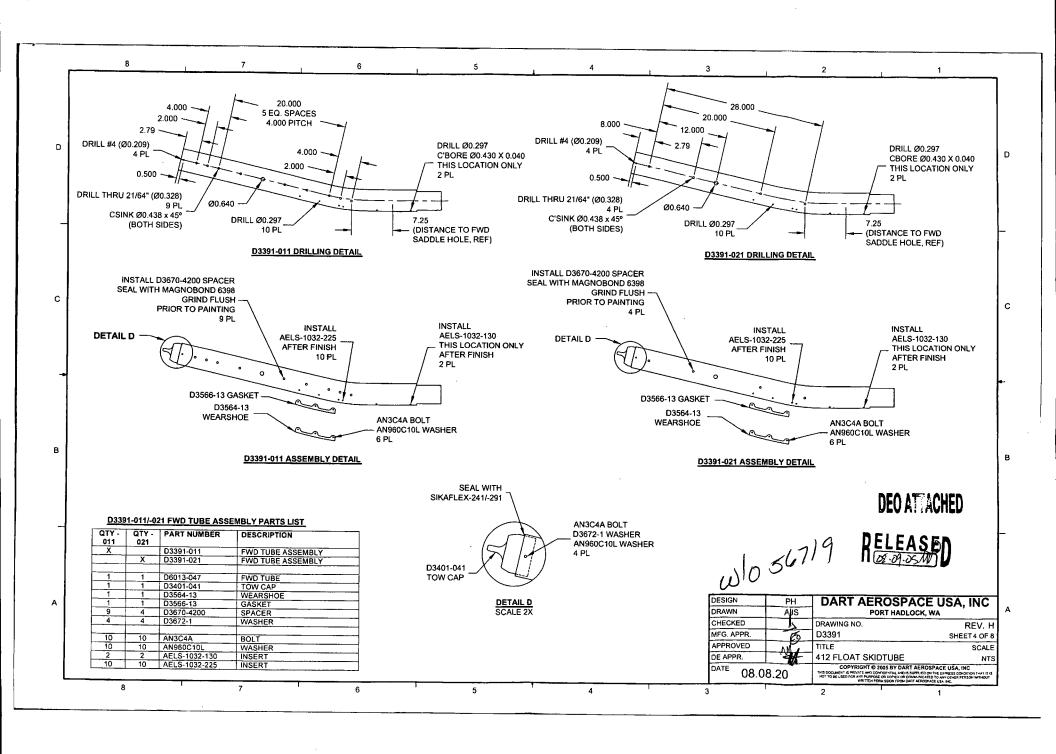
| Warehouse       | Loc Qty | Loc Code |             |
|-----------------|---------|----------|-------------|
| <b>Location</b> |         |          |             |
| Main Warehouse  |         | 1111221  | xJ 10108/17 |
| ST              | 22      |          | X           |
| 12726           | 4       |          |             |
| 2296            | 2       |          |             |
| 5558            | 16      |          |             |

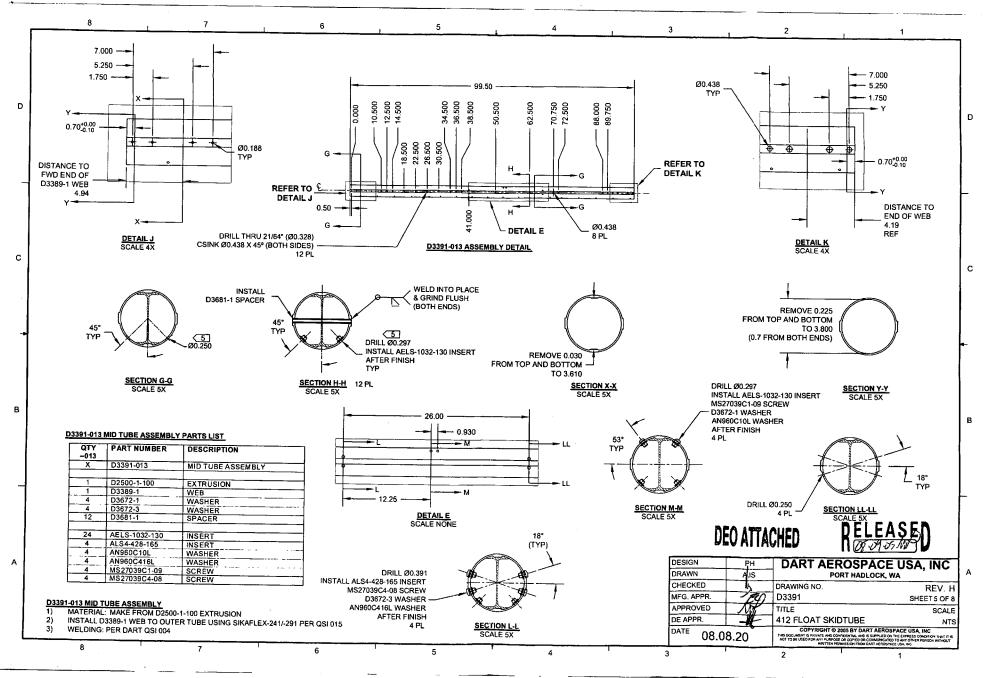
| Duit Ac     | oopaoo | Liu                |                                    |                              |             |                |              |      |                               |                          |
|-------------|--------|--------------------|------------------------------------|------------------------------|-------------|----------------|--------------|------|-------------------------------|--------------------------|
| W/O:        |        |                    | WO                                 | RK ORDER CHANG               | iES         |                |              |      |                               |                          |
| DATE        | STEP   | PRO                | OCEDURE CHAI                       | IGE                          | By Date Qty |                |              |      | Approval Chief Eng / Prod Mgr | Approval<br>QC Inspector |
|             |        |                    |                                    |                              |             |                |              |      |                               |                          |
|             |        |                    |                                    |                              |             |                |              |      |                               |                          |
|             |        |                    |                                    |                              |             |                |              |      |                               |                          |
|             |        |                    |                                    |                              |             |                |              |      |                               |                          |
| 5           |        |                    |                                    |                              |             |                |              |      | ·                             |                          |
|             |        | Fault Category: NC |                                    |                              |             |                |              |      |                               |                          |
| Resolution: |        |                    | Disposition: QA: N/C Closed: Date: |                              |             |                |              |      |                               |                          |
| NCR:        |        |                    | WORK ORDE                          | R NON-CONFORM                | ANCE        | (NCR)          | )            |      |                               |                          |
| DATE        | STEP   | Description of NC  | }                                  | Corrective Action Section B  |             |                | Verification |      | Approval                      | Approval                 |
|             | JILI   | Section A          | Initial<br>Chief Eng               | Action Description Chief Eng |             | Sign &<br>Date | Secti        | on C | Chief Eng                     | QC Inspector             |
|             | . }    |                    |                                    |                              |             |                |              |      |                               |                          |
|             |        |                    |                                    |                              | •           |                |              |      |                               |                          |
|             |        |                    |                                    |                              |             |                |              |      |                               |                          |
|             |        |                    |                                    |                              |             |                |              |      |                               |                          |
|             |        |                    |                                    |                              |             |                |              |      |                               |                          |
|             |        |                    |                                    |                              |             |                |              |      |                               |                          |
| •           |        |                    |                                    |                              |             |                |              |      |                               |                          |
|             |        |                    |                                    |                              |             |                |              |      |                               |                          |
| :           |        |                    |                                    |                              |             |                |              |      |                               |                          |



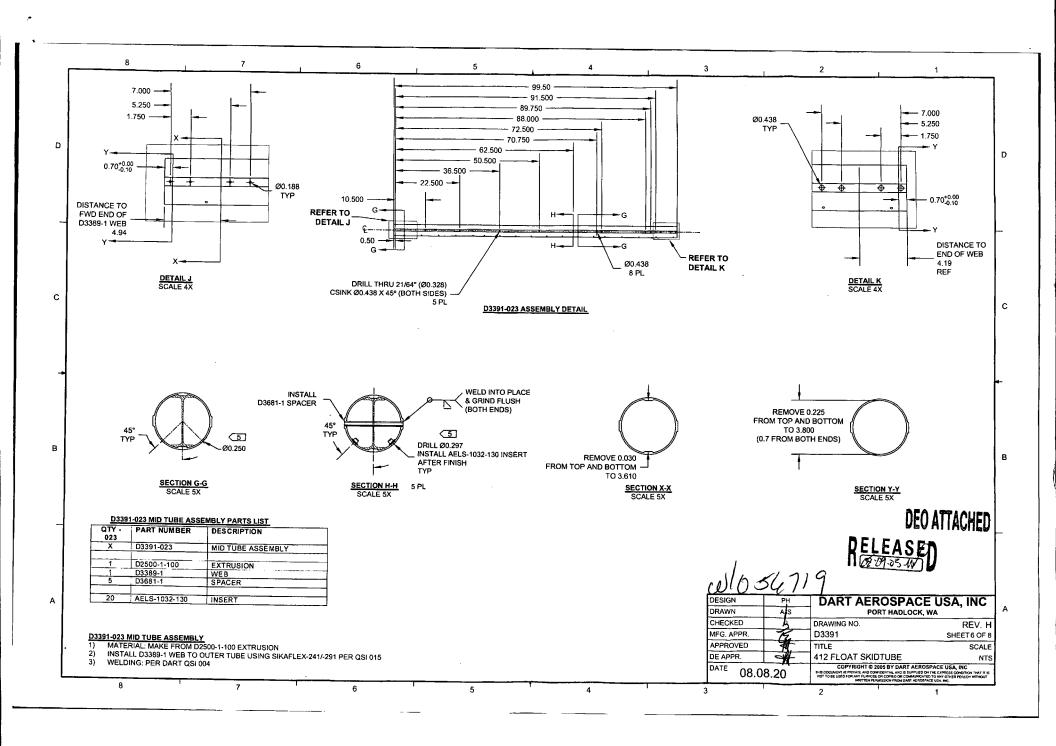


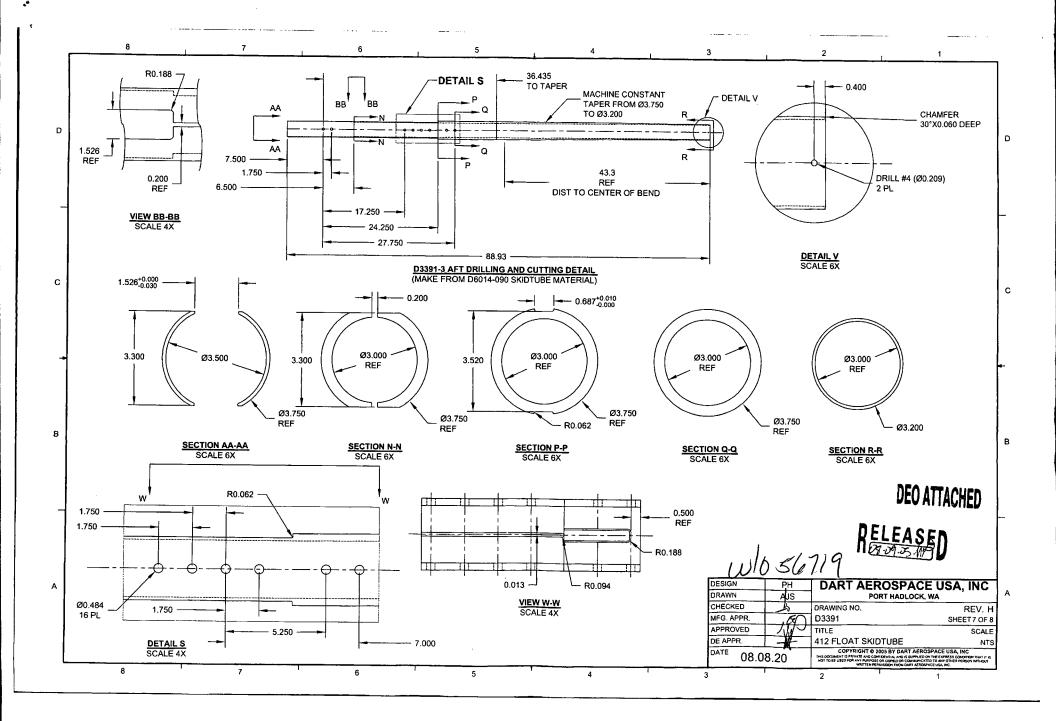


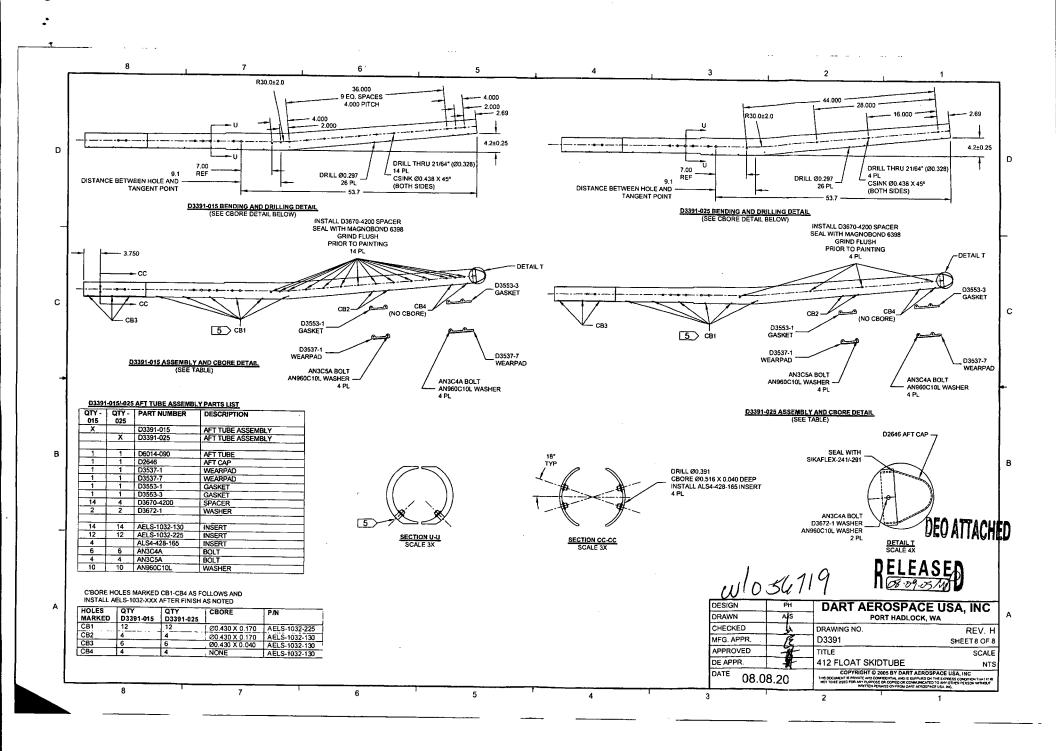




W/056219







| DRAWING N<br>D3391 |        | TITLE<br>412 FLOAT | SKIDTUBE |         | ART AEROSPACE USA, II<br>ENGINEERING ORDER |                                       | SHEET NO.<br>SHEET 1 OF 1 | SCALE |
|--------------------|--------|--------------------|----------|---------|--|---------------------------------------|---------------------------|-------|
| DRAWN              | - W    | )                  | CHECKED  |         | MFG. APPR.                                 | · · · · · · · · · · · · · · · · · · · | DE APPR.                  | NTS   |
| DATE               | 09.09. | 23                 | DATE O   | 4.04.24 | DATE 09/09/25                              | DATE 09/09/30                         | DATE 09/09/30             |       |

#### **PURPOSE:**

LPS-3 IS NO LONGER USED DURING ASSEMBLY OF D3391-041/-043 SKIDTUBES.

#### **CHANGE:**

AMEND NOTE 2 OF D3391-041/-043 SKIDTUBE ASSEMBLIES (ZN A6-1, A6-2) AS FOLLOWS:

2) SPRAY INSIDE OF TUBE WITH A COAT OF LPS LABORATORIES "LPS-3" AFTER FINISH AND AFTER INSTALLATION OF INSERTS. COAT ALL EXPOSED FASTENERS WITH LPS LABORATORIES "LPS PROCYON" AFTER FINAL ASSEMBLY, CLEAN EXCESS OFF POWDER COATING WITH MEK DEGREASER.

DELEASED 2010 -02- 02

AMP.